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R & D Project No. 6x60-01-001-02

Metabolism and Nutrition - Subtask: Radiation and Sterilization of Foods

Veterinary Division, Department of Pathology

Armed Forces Institute of Pathology

Washington 25, D. C.

Progress Report for Period Ending

15 March 1962

Principal Investigator: Lt Col. M. A. Ross, VC

Assistant Investigators: Maj. F. M. Garner, VC

Capt. W. E. Tucker, Jr., VC

Material Received:

Material representing 2773 rats, 244 dogs and 26 monkeys have been received from all contractors. This represents more than 95% of the total material anticipated to complete all contracts. Those contractors still with material to submit have been contacted and efforts to have all material received within the next few months have been made.

Review and Statistical Analysis:

All cases received have been initially reviewed and coded. The majority of these have been coded by IBM methods for compilation of individual contract reports and the final summary report for each species of animal. Statistical analysis of completed contracts are being made as rapidly as possible consistent with thoroughness.

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Completed Contract Reports:

Completed contract reports have previously been submitted for:

Georgia Coastal Plains Experiment Station (Dogs)

University of Michigan (Rats)

Texas A & M (Rats)

Alabama (Dogs)

Medical College of Virginia (Dogs)

University of Illinois (Dogs)

Virginia Polytechnic Institute (Dogs)

This report is accompanied by contract reports for:

University of California, Los Angeles (Rats)

Oregon State University (Rats - peaches)

Wisconsin Alumni Research Foundation (Rats)

University of Miami (Dogs - Beef Stew, Evap. Milk)

Cornell University (Dogs - Tuna, Corn)

Observations:

The four dog feeding programs, included as part of this report, gave no evidence of distinctive differences between feeding groups. The lesions seen were very mild and of the types commonly observed histologically in apparently healthy dogs. The conclusions are based on inspection of data and not on statistical evaluations. The individual contract reports discuss more fully the extent of changes noted.

The three rat projects reported gave only occasional differences of significance. These followed no consistent pattern and were often found in control groups as well as in irradiated diet groups.